LIEBHERR
CONSTRUCTION EQUIPMENT

LIEBHERR R934CEW 29333 - Hydraulic System

Sample No: LH0178230

Oil Type: KENDALL FOUR SEASONS AW ISO 46

DOMINION NICKEL ALLOYS LTD.
834 APPLEBY LINE
BURLINGTON, ON
CA L7L 2Y7
Contact: Trevor Taylor
trevor@domnickel.com
T: (905)639-9939
F: (905)639-3788

Diagnosis

Resample at the next service interval to monitor.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

Sample Number		**LH0178230**	LH0224524	LH0186969	---
Sample Date		**05 Jul 2023**	20 Jul 2022	15 Apr 2021	---
Machine Hours		**17038**	16000	15000	---
Oil Hours		**2038**	1000	5000	---
Oil Changed		**Not Changd**	Not Changd	Changed	---
Sample Status		**NORMAL**	NORMAL	ABNORMAL	---

OIL CONDITION

Visc @ 40°C	cSt	**43.0**	50.4	42.9	---

CONTAMINATION

Water	%	**---**	---	0.015	---
Particles >4µm		**7093**	19224	66542	---
Particles >6µm		**754**	2480	19599	---
Particles >14µm		**15**	60	1838	---
ISO 4406:1999 (c)		**20/17/11**	21/18/13	23/21/18	---
Silicon	ppm	**<1**	<1	<1	---
Sodium	ppm	**<1**	<1	<1	---
Potassium	ppm	**<1**	<1	<1	---

WEAR METALS

Iron	ppm	**2**	7	5	---
Copper	ppm	**<1**	1	2	---
Lead	ppm	**0**	<1	<1	---
Tin	ppm	**0**	0	0	---
Aluminum	ppm	**0**	<1	<1	---
Chromium	ppm	**2**	6	6	---
Molybdenum	ppm	**1**	0	<1	---
Nickel	ppm	**0**	0	<1	---
Titanium	ppm	**0**	0	0	---
Silver	ppm	**0**	0	<1	---
Manganese	ppm	**0**	<1	<1	---
Vanadium	ppm	**0**	0	0	---

ADDITIVES

Calcium	ppm	**57**	68	94	---
Magnesium	ppm	**2**	<1	2	---
Zinc	ppm	**439**	425	487	---
Phosphorus	ppm	**365**	338	382	---
Barium	ppm	**0**	0	0	---
Boron	ppm	**<1**	<1	1	---

Depot: DOMBUR
Unique No: 5607456
Signed: Kevin Marson
Report Date: 19 Jul 2023

Report Id: DOMBUR [WCAMIS] 02570410 (Generated: 07/19/2023 08:36:11) Rev: 1

Submitted By: Trevor Taylor

Particle Filter (Magn: 100 x)

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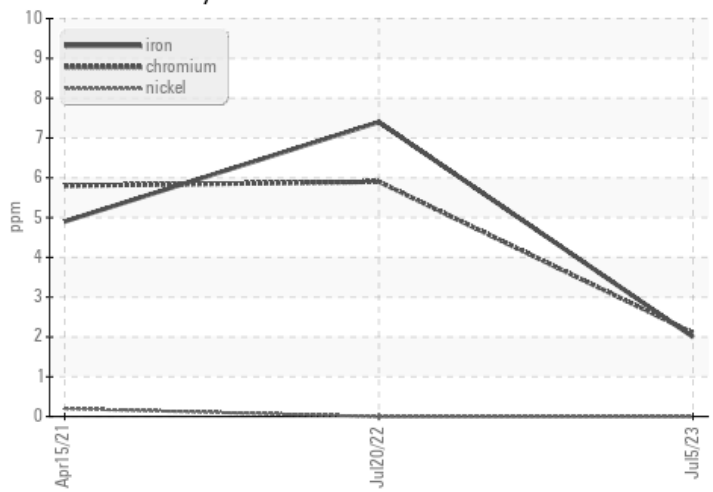
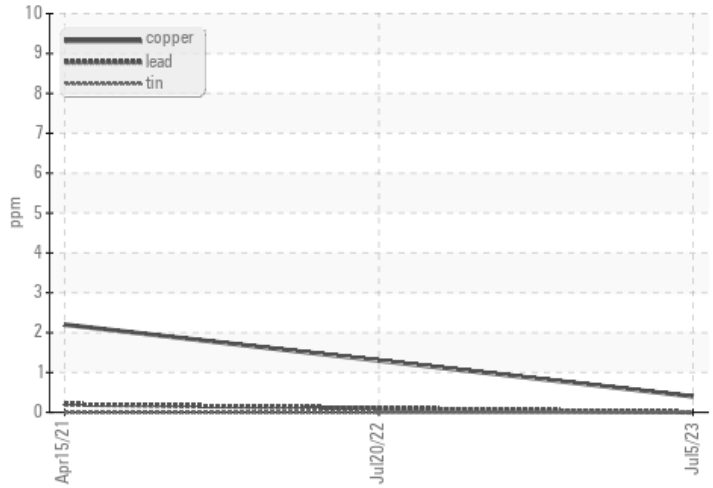
GRAPHS

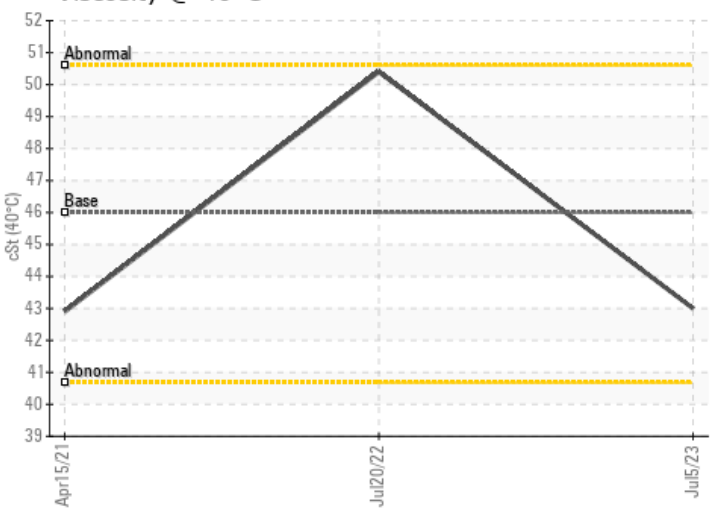
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Filter (Magn: 100 x)